

## Message Text

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45

ACTION AF-18

INFO OCT-01 ISO-00 EB-11 SCI-06 PM-07 CIAE-00 INR-10

NSAE-00 RSC-01 DODE-00 L-03 DRC-01 /058 W

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R 091629Z APR 74

FM AMEMBASSY MONROVIA

TO CHESNAVFACENGCOM WASHDC

INFO SECSTATE WASHDC 1540

UNCLAS MONROVIA 2041

E.O. 11652: N/A

TAGS: MARR, ETRN, LI

SUBJECT: SOILS TESTING, OMEGA LIBERIA

REF: A. ROICC LIBERIA LTR. SER 74-20 OF 9 APRIL TO RAYMOND

B. LATERITE AND LATERITIC SOILS OF AFRICA, LYON ASSOC.  
INC.

C. RAYMOND INT. FOUNDATION INVESTIGATIONS, OMEGA LIBERIA,  
DEC 1973

FROM ROICC, LIBERIA, LT DELKER

1. INFORMAL CONTRACT HAS BEEN EXECUTED WITH SOILS LABORATORY OF MINISTRY OF PUBLIC WORKS, REPUBLIC OF LIBERIA TO PROVIDE SOILS TESTS REQUIRED UNDER CONTRACT SPECS. THE LIQUID LIMIT (LL) OF THIRTEEN (13) SAMPLES RANGED FROM THIRTY-SIX (36) TO FIFTY-FOUR (54) WITH AN AVERAGE OF FORTY-THREE (43). NO SAMPLE MET THE REQUIREMENT OF HAVING A LIQUID LIMIT NOT TO EXCEED THIRTY-FIVE (35). PLASTICITY INDEX (PI) OF THIRTEEN (13) SAMPLES RANGED FROM FIVE AND ONE HALF (5.5) TO NINETEEN (19) WITH AN AVERAGE OF FOURTEEN (14). FOUR OF THE THIRTEEN (13) SAMPLES CONFORMED WITH THE SPEC. REQUIREMENT OF HAVING PLASTICITY INDEX NOT GREATER THAN TWELVE (12).

2. REF A NOTIFIED RAYMOND OF TEST RESULTS AND REQUESTED PROPOSAL BE SUBMITTED EARLIEST TO THIS OFFICE REGARDING CORRECTIVE ACTION.

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3. EARTHWORK MAY STILL PROGRESS AS SECTION 2A. 3.3 REQUIRES LATERITE WITH MAXIMUM P.I. OF TWELVE (12) AND L.L. OF THIRTY-FIVE (35) FOR FILL AND BACKFILL UNDER SPREAD FOOTINGS, CONCRETE SLABS ON GRADE AND PAVEMENTS. THESE LIMITS NOT REQUIRED ON ACCESS ROADS "B" AND "C" AND ROADS TO GUY ANCHORS, THEREFORE WORK MAY PROCEED.

4. MINISTRY OF PUBLIC WORKS R.L. RECORDS AND REF. "B" INDICATE THAT THE TEST RESULTS LISTED PARA 1 ARE COMMON VALUES FOR NATURAL SOURCES OF LATERITE IN LIBERIA. ANTICIPATE A REQUEST FROM RAYMOND FOR EXCEPTION SECTION 2A. 3.3 OF SPECS REGARDING LIMITS OF PI AND LL.

5. DUE TO THE FACT THAT (A) ACCESS ROADS WILL CARRY LIGHT TRAFFIC (B) HELIX AND TRANSMITTER BLDGS. ARE SINGLE STORY STRUCTURES WITH RELATIVELY LIGHT FLOOR LOADING (C) TOWER FOUNDATION WILL HAVE ONLY ONE FOOT OF LATERITE FILL ON EXISTING SAND, IT IS PROPOSED THAT THE MAXIMUM P.I. AND L.L. BE MODIFIED IN THESE AREAS IN EXCHANGE FOR THE WORK REQUIRED FOR A PROPOSED CHANGE ORDER THIS OFFICE HAS PREPARED. THE PROPOSED CHANGE ORDER CALLS FOR:

EXCAVATION FOR A MIN. OF 18 FT. IN FRONT OF ALL GUY AND RADIAL ANCHORS IN CUTS AND REPLACEMENT WITH LATERITE FILL AT 95 PERCENT MAXIMUM DENSITY. THIS IS IN ACCORDANCE WITH RECOMMENDATIONS OF PLATE 9 OF REF. "C" WHICH CALLS FOR COMPACTED FILL IN FRONT OF ALL ANCHORS FOR A DISTANCE OF THREE TIMES THE DEPTH OF THE FRONT FACE OF THE ANCHOR. THIS IS REQUIRED FOR ADEQUATE LATERAL STABILITY. MAXIMUM LIQUID LIMIT AND PLASTICITY INDEX REQUIREMENT WOULD NOT BE RELAXED IN THIS AREA DUE TO IMPORTANCE OF LATERAL STABILITY. GOV'T ESTIMATE FOR THIS WORK 3,500 DOL. REQUEST CONCURRENCE FOR THIS PLAN.

6. REQUEST CLARIFICATION IN CONFLICT OF SECTION 2A. 3.3 WHICH ALLOWS NO MORE THAN 25 PERCENT BY WEIGHT OF MATERIAL SHALL BE FINER THAN NO. 200 SIEVE AND SECTION 2A. 4.2X OF AMENDMENT 5 WHICH ALLOWS NOT MORE THAN 15 PERCENT BY WEIGHT OF THE MATERIAL SHALL PASS NO. 200 SIEVE. MATERIAL UNCLASSIFIED

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BEING USED AVERAGES APPROXIMATELY 20 PERCENT PASSING NO. 200 SIEVE.  
MANFULL

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NNN

## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** CONSTRUCTION, SOILS, HIGHWAYS, OMEGA, NAVIGATIONAL AIDS  
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**Copy:** SINGLE  
**Draft Date:** 09 APR 1974  
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**Disposition Action:** n/a  
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**Disposition Date:** 01 JAN 1960  
**Disposition Event:**  
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